

Notice of Allowability

Application No.

10/079,932

Examiner

J. Bret Dennison

Applicant(s)

KASRIEL, STEPHANE

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/26/2007.
2. ☒ The allowed claim(s) is/are 1-13, 19 and 20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date attached.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


DAVID WILEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

EXAMINER'S AMENDMENT

An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, and amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Shaun Dempster on 6/18/2007.

IN THE CLAIMS

Replace claims 1 and 8 with the following:

1. A method of predictive predownloading of next objects with delta encoding, including steps of:

receiving from a client a request for an object;

updating a prediction map in response to the request and a referring page that indicates an object just previously requested by the client, the prediction map associating the requested object with next objects likely to be requested;

maintaining a stored set of templates for the requested object, each template comprising a selected portion of the requested object that is **relatively** unchanging between instances of the requested object;

calculating delta information for one particular template of the stored set of templates, delta information comprising selected portions of the requested object that **may** vary between instances of the requested object; and

sending to the client (i) a hint that includes a suggestion to download a next object based on the prediction map embedded in a response message with (ii) delta information for the requested object that specifies the particular template.

8. An apparatus for predictive predownloading of templates with delta encoding, including:

a delta encoder configured to calculate delta information for a requested web page responsive to a stored set of templates, each template comprising a selected portion of the requested web page that is ~~relatively~~ unchanging between instances of the requested web page, delta information comprising selected portions of the requested web page that ~~may~~ vary between instances of the requested web page;

a template builder configured to build a new template for the requested web page if the delta information for the requested web page exceeds a threshold value; and

a predictor configured to determine a set of next web pages likely to be requested in response to the requested web page and a referring page that indicates a web page just previously requested, the predictor also interacts with the template builder to build a template for at least one of the set of next web pages.

Allowable Subject Matter

Claims 1-13 and 19-20 are allowed in view of the Applicant's arguments (see Applicant's Response, filed 3/26/2007) and the cited prior art of record. The

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independent claims recite predicting next objects to be requested in which a set of templates is maintained, each containing an unchanging portion between instances of a requested object, delta information is calculated for a particular template, the delta information being selected portions of the requested object that vary between instances of the requested object, sending the client a prediction hint for which object to download next based on a prediction map embedded in a response message as well as delta information for the requested object that specifies the particular template, which, in addition to the rest of the claim limitations, are distinguished from the prior art. For support, see Instant Specification (p6-7, 10-13).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

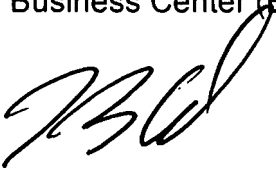
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to J. Bret Dennison whose telephone number is 571-272-3910. The examiner can normally be reached on Monday-Thursday 9am-5:30pm Eastern.

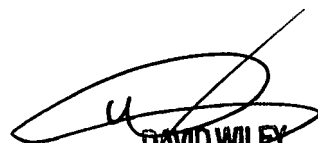
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on 571-272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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